



"THE STANDARD OF EXCELLENCE IN THE INDUSTRY"

CASING SPACERS (Stainless Steel – Extended Range) - STYLE – CCS-ER

Casing spacer shall be made from T304 stainless steel of a minimum thickness of 14 gauge. Each shell section shall be a maximum of 12" wide, and shall be a two-piece design. Each shell section shall have a stud bar and receiver bar TIG welded to the shell. Studs shall be T304 and threaded as 5/8-11 UNC. Each stud bar shall include up to three studs, and shall allow a maximum of 1" of adjustment in circumference to compensate for the variations in large diameter (non-uniform) pipe. The shell shall be lined with a 0.090" thick, ribbed PVC extrusion with a retaining section that overlaps the edges of the shell and prevents slippage. Bearing surfaces (runners) shall be ultra high molecular weight polyethylene (UHMW) to provide high abrasion resistance and a low coefficient of friction (0.12). The runners shall be attached to support structures (risers) at appropriate positions to properly support the carrier within the casing and to ease installation. The runners shall be mechanically bolted to the riser. The bolt heads are welded to the inside of the risers for strength. Risers shall be made of T304 stainless steel of a maximum 10 gauge. All risers shall be MIG welded to the shell. Bottom risers 6" and over in height shall be reinforced. All reinforcing plates shall be 10 ga. T304 stainless steel and shall be MIG welded to mating parts. **Standard positioning within the casing pipe** shall be sized such that the carrier rests near the bottom of the casing pipe and the height of the risers and runners are to provide a bottom clearance not less than one-half inch between the casing pipe and the extreme outside diameter of the joint (bell, seam weld, joint clamp, ...) of the carrier pipe. **Centered & Restrained positioning within the casing pipe** shall be sized such that the height of the risers and runners are to center the carrier pipe in the casing pipe with a top clearance of three-fourths inch minimum. **Restrained positioning within the casing pipe** shall be sized such that the carrier rests near the bottom of the casing pipe and the height of the risers and runners are to provide a bottom clearance not less than one-half inch between the casing pipe and the extreme outside diameter of the joint (bell, seam weld, joint clamp, ...) of the carrier pipe and a top clearance of three-fourths inch minimum. **All weldments shall be fully chemically passivated in accordance with ASTM A380.** Due to the numerous application possibilities, consult factory for spacing requirements. Casing spacers shall be Model CCS-ER as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL or approved equal.